

IN THE TITLE:

Please REPLACE the title with the below new title:

TRAINING A NEURAL NETWORK OF PULSE NEURONS FOR USES SUCH AS EEG
SIGNAL CLASSIFICATION

IN THE SPECIFICATION:

The specification as amended below with replacement paragraphs shows added text with underlining and deleted text with ~~strikethrough~~.

Please REPLACE the paragraph beginning at page 2, line 7, with the following paragraph:

B1
The Time Delay Neural Networks (TDNN) known from German Patent Document DE 195 31 697967 C2 attempt to counter this disadvantage in that, given a plurality of sequences of input quantities, a respective input neuron is provided for each sequence and for each time row value. This approach particularly exhibits the disadvantage that the dimension of the input space -- represented by the plurality of input neurons -- increases exponentially with an increasing plurality of different sequ4ences of input quantities to be taken into consideration.

N.E. **Please DELETE page 6, lines 10 through page 10, line 17.**

N.E. **Please DELETE page 13, line 11.**

Please REPLACE the paragraph beginning at page 16, line 1, with the following paragraph:

B2
A picture screen 228 (via a first cable 227), a keyboard 230 (via a second cable 229) and a computer mouse 232 (via a third cable 231) are also connected to the second input/output interface 225.

Please REPLACE the paragraph beginning at page 21, line 3, with the following paragraph:

B3
For training in the second time span $[0; T']$, a second discrimination value $I(T')$ is formed in a further step (step 103) in the same way as described above for the first discrimination value $I(T)$.